

Abstract

In a power output apparatus of the invention, an engine EG1 is connected with a motor MG1 and is connected with an engine EG2 via a clutch C1. A driveshaft 65 is connected to the engine EG2 via a clutch C2 and is linked with a motor MG2. On a start or in a low speed range, the clutch C2 is set in an OFF position to disconnect the engine EG2 from the driveshaft 65, and the power output apparatus is driven only with the output power of the motor MG2. In an intermediate speedrange, the clutch C2 is set in an ON position, and the power output apparatus is driven mainly with the output power of the engine EG2 that is driven with high efficiency. This arrangement enhances the total energy efficiency. The power output apparatus of the invention has a simple structure including the two clutches in addition to the two engines and the two motors.